

EXECUTIVE SUMMARY

Effective military operations must respond with a mix of forces, anywhere in the world, at a moment's notice. The ability for the information technology systems supporting these operations to interoperate – work together and exchange information – is critical to their success. The lessons learned from the recent conflicts of Desert Shield/Desert Storm have resulted in a new vision for the Department of Defense (DoD). Joint Vision 2010 (JV2010) is the conceptual template for how America's Armed Forces will channel the vitality and innovation of our people, and leverage technological opportunities to achieve new levels of effectiveness in joint warfighting. The DoD Joint Technical Architecture (JTA) is crucial to achieving JV2010.

The JTA provides DoD systems with the basis for the needed seamless interoperability. The JTA defines the service areas, interfaces, and standards (JTA elements) applicable to all DoD systems, and its adoption is mandated for the management, development, and acquisition of new or improved systems throughout DoD. The JTA is structured into service areas based on the DoD Technical Reference Model (TRM). The DoD TRM originated from the Technical Architecture Framework for Information Management (TAFIM), and was developed to show which interfaces and content needed to be identified. These are depicted as major service areas in the DoD TRM.

Standards and guidelines in the JTA are stable, technically mature, and publicly available. Wherever possible, they are commercially supported, and validated off-the-shelf commercial implementations from multiple vendors are available. Standards and guidelines that do not yet meet these criteria, but are expected to mature to meet them in the near-term, are cited as "emerging standards" in the expectation that they will be mandated in future versions of the JTA.

The JTA consists of two main parts: the JTA core, and the JTA Annexes. The JTA core contains the minimum set of JTA elements applicable to all DoD systems to support interoperability. The JTA Annexes contain additional JTA elements applicable to specific functional domains (families of systems). These elements are needed to ensure interoperability of systems within each domain, but may be inappropriate for systems in other domains. The current version of the JTA, JTA Version 2.0, was extended to include Annexes for: the Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) domain; the Combat Support domain; the Modeling and Simulation domain; and the Weapon Systems domain. Where subsets of an application domain (subdomains) have special interoperability requirements, the JTA includes Subdomain Annexes containing JTA elements applicable to systems within that subdomain. The intention is that a system within a specific subdomain shall adopt the JTA elements contained in the relevant Subdomain Annex, the JTA elements contained in the parent Domain Annex, and the JTA elements contained in the JTA core.

The JTA is complementary to and consistent with other DoD programs and initiatives aimed at the development and acquisition of effective, interoperable information systems. These include the DoD's Specification and Standards Reform; Implementation of the Information Technology Management Reform Act (ITMRA); Defense Modeling and Simulation Initiative; Evolution of the DoD TRM; Defense Information Infrastructure Common Operating Environment (DII COE); and Open Systems Initiative.

Development of the JTA is a collaborative effort, conducted by the JTA Development Group (JTADG), directed by the Technical Architecture Steering Group (TASG), and approved by the Architecture Coordination Council (ACC). Members represent the DoD Components (Office of the Secretary of Defense (OSD), the Military Departments, the Organization of the Joint Chiefs of Staff (OJCS), the Unified and Specified Commands, and the Defense Agencies), and components of the Intelligence Community.

The JTA is a living document and will continue to evolve with the technologies, marketplace, and associated standards upon which it is based.

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COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (C4ISR) DOMAIN ANNEX

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